

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 12, 2003, 20:35:11 ; Search time 1076 Seconds
(without alignments)
2434.250 Million cell updates/sec

Title: US-09-910-757-1

Perfect score: 90

Sequence: 1 gggagacggcgcggtggcg.....cgggtcccgcgaggggtcg 90

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

GenEmbl.*

1: gb.ba.*

2: gb.htg.*

3: gb.in.*

4: gb.om.*

5: gb.ov.*

6: gb.pat.*

7: gb.ph.*

8: gb.pl.*

9: gb.pr.*

10: gb.ro.*

11: gb.sts.*

12: gb.sy.*

13: gb.un.*

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32: em.htg.other.*

33: em.htg.mus.*

34: em.htg.pin.*

35: em.htg.rod.*

36: em.htg.mam.*

37: em.htg.vrt.*

38: em.sy.*

39: em.htgo.hum.*

40: em.htgo.mus.*

41: em.htgo.other.*

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	90	100.0	90	6	ARL76162	ARL76162 Sequence
2	90	100.0	256	9	HOMPRAPP	M35675 Human amylo
3	90	100.0	1154	9	HUMAMYB01	M34862 Human amylo
4	90	100.0	1286	9	HUMAPPB01	M24546 Human beta-
5	90	100.0	1319	9	BC004369	BC004369 Homo sapi
6	90	100.0	3353	6	A02759	A02759 H.sapiens m
7	90	100.0	3353	6	I36121	I36121 Sequence 1
8	90	100.0	3353	6	I66657	I66657 Sequence 12
9	90	100.0	3354	6	AX026822	AX026822 Sequence
10	90	100.0	3354	9	HSAPPA4	Y00264 Human mRNA
11	90	100.0	8591	6	I58322	I58322 Sequence 6
12	90	100.0	8591	6	I58323	I58323 Sequence 8
13	90	100.0	8591	6	I60508	I60508 Sequence 6
14	90	100.0	8591	6	I60509	I60509 Sequence 8
15	90	100.0	8591	6	I77052	I77052 Sequence 6
16	90	100.0	8591	6	I77053	I77053 Sequence 8
17	90	100.0	8591	6	I87173	I87173 Sequence 6
18	90	100.0	8591	6	I87174	I87174 Sequence 8
19	90	100.0	83661	9	AP001439	AP001439 Homo sapi
20	90	100.0	100000	9	AP000143	AP000143 Homo sapi
21	90	100.0	100634	9	AP001594	AP001594 Homo sapi
22	90	100.0	121597	9	AP000090	AP000090 Homo sapi
23	90	100.0	123631	9	HS22F01	AL109967 Homo sapi
24	90	100.0	301692	9	D87675	D87675 Homo sapien
25	90	100.0	340000	9	AP001695	AP001695 Homo sapi
26	88.4	98.2	3148	6	I36122	I36122 Sequence 3
27	88.4	98.2	3148	9	HSAPPA4R	X06989 Human mRNA
28	88.4	98.2	3520	6	AR072114	AR072114 Sequence
29	78.2	86.9	3098	9	MACABPKPIB	M58727 M.fascicula
30	78.2	86.9	6074	9	AF067971	AF067971 Macaca mu
31	66	73.3	1286	6	AX347152	AX347152 Sequence
32	58	64.4	2340	9	S81024	S81024 beta PF751-
33	51.8	57.6	1286	6	AX347153	AX347153 Sequence
34	50	55.6	3804	6	AR068368	AR068368 Sequence
35	50	55.6	3804	9	HSPADP	X12751 Human promt
36	49.8	55.3	3111	10	CSAMYLOID	X97631 Cavia sp. m
37	46.6	51.8	1361	10	MUSALZABA	D10603 Mus musculu
38	45	50.0	2360	6	E02400	E02400 DNA encodin
39	42.2	46.9	2520	10	MUSABPPA	M18373 Mouse amylo
40	42.2	46.9	2520	10	MMU84012	U84012 Mus musculu
41	38.4	42.7	105620	2	AC127760	AC127760 Rattus no
42	37	41.1	156	6	AX205269	AX205269 Sequence
43	37	41.1	499	10	RATAPPG	L11926 Rat amyloid
44	37	41.1	157649	2	AC094616	AC094616 Rattus no
45	37	41.1	180010	2	AC120935	AC120935 Rattus no

ALIGNMENTS

RESULT 1
ARL76162
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL

ARL76162
Sequence 1 from patent US 6310197.
ARL76162
ARL76162.1 GI:17917461

Unknown.

Unclassified.

1 (bases 1 to 90)

Rogers, J.

Translation enhancer element of the human amyloid precursor protein

gene

Patent: US 6310197-A 1 30-OCT-2001;

Pred. No. is the number of results predicted by chance to have a

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FEATURES             Location/Qualifiers
  source              1..90
BASE COUNT           14 a 30 c 40 g 6 t
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Best Local Similarity 100.0%; Pred. No. 2.2e-11;
Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 1 GGGAGACGGCGGCGGTGGCGGGCGGAGACAGGAGCGGGCGGATCCCACTCGCAC 60
    |||
QY 61 GCAGGCACTCGGTGCCCGCGCAGGGTCG 90
    |||
DB 61 GCAGGCACTCGGTGCCCGCGCAGGGTCG 90
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RESULT 2
LOCUS HUMPRAPP 256 bp mRNA linear PRI 08-JAN-1995
DEFINITION Human amyloid beta precursor protein (ABPP) mRNA, 5' end.
ACCESSION M35675.1 GI:190306
KEYWORDS amyloid beta.
SOURCE Human fetal muscle, cDNA to mRNA, clone lambda-HAP2.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 256)
AUTHORS Mita,S., Sadlock,J., Herbert,J. and Schon,E.A.
TITLE A cDNA specifying the human amyloid beta precursor protein (ABPP)
        encodes a 95-kDa polypeptide
JOURNAL Nucleic Acids Res. 16 (19), 9351 (1988)
MEDLINE 89016647
PUBMED 3140222
FEATURES             Location/Qualifiers
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                        /map="21q21.2"
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                        /gene="App"
  CDS                  8..>256
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                        /note="amyloid beta precursor protein (ABPP)"
                        /codon_start=1
                        /protein_id="AAA60163.1"
                        /db_xref="GI:190307"
                        /db_xref="GDB:G00-119-692"
                        /translation="AKSFTSEISVLFINPEGRVYVFLGSGRRHAERARGPRE
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Best Local Similarity 100.0%; Pred. No. 1.8e-11;
Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 135 GGGAGACGGCGGCGGTGGCGGGCGGAGACAGGAGCGGGCGGATCCCACTCGCAC 194
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QY 61 GCAGGCACTCGGTGCCCGCGCAGGGTCG 90
    |||
DB 195 GCAGGCACTCGGTGCCCGCGCAGGGTCG 224
    |||

RESULT 3
LOCUS HUMAMYB01 1154 bp DNA linear PRI 08-AUG-1995
DEFINITION Human amyloid-beta protein (APP) gene, exon 1.

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ACCESSION M34862
VERSION M34862.1 GI:178595
KEYWORDS amyloid-beta protein.
SEGMENT 1 of 19
SOURCE Homo sapiens DNA.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (sites)
AUTHORS Yoshikai,S., Sasaki,H., Doh-ura,K., Furuya,H. and Sakaki,Y.
TITLE Genomic organization of the human amyloid beta-protein precursor
        gene
JOURNAL Gene 87 (2), 257-263 (1990)
MEDLINE 90236318
PUBMED 2110105
REFERENCE 2 (bases 1 to 1154)
AUTHORS Yoshioka,K., Izumi,R., Oishi,N. and Sakaki,Y.
JOURNAL Unpublished (1992)
COMMENT [1] sites; Intron/exon boundaries.
        Computer-readable sequence for [1] kindly submitted by Y.Sakaki,
        01-MAY-1992
FEATURES             Location/Qualifiers
  source              1..1154
                        /organism="Homo sapiens"
                        /db_xref="taxon:9606"
                        /map="21q21.2"
  protein_bind         484..490
                        /gene="App"
                        /note="G00-119-692"
  misc_feature         517..530
                        /bound_moiety="AP-1"
                        /gene="App"
                        /note="heat shock element; G00-119-692"
  protein_bind         789..795
                        /gene="App"
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  exon                 834..1037
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                        /note="G00-119-692"
                        /number=1
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Best Local Similarity 100.0%; Pred. No. 1.4e-11;
Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGGAGACGGCGGCGGTGGCGGGCGGAGACAGGAGCGGGCGGATCCCACTCGCAC 60
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DB 889 GGGAGACGGCGGCGGTGGCGGGCGGAGACAGGAGCGGGCGGATCCCACTCGCAC 948
    |||
QY 61 GCAGGCACTCGGTGCCCGCGCAGGGTCG 90
    |||
DB 949 GCAGGCACTCGGTGCCCGCGCAGGGTCG 978
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RESULT 4
LOCUS HUMAPPB01 1286 bp DNA linear PRI 31-OCT-1994
DEFINITION Human beta-amyloid protein (beta-AAP) gene, exon 1.
ACCESSION M24546
VERSION M24546.1 GI:341201
KEYWORDS beta-amyloid.
SEGMENT 1 of 2
SOURCE Homo sapiens (tissue library: of Young) DNA.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1286)
AUTHORS La Fauci,G., Lahiri,D.K., Salton,S.R. and Robakis,N.K.
TITLE Characterization of the 5'-end region and the first two exons of

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/tissue_type="Pancreas, adenocarcinoma"
/clone_lib="NIH_MGC_39"
/lab_host="DH10B-R"
/note="Vector: pOTB7"
127. .1044
CDS
/codon_start=1
/product="Similar to amyloid beta (A4) precursor protein
(protease nexin-II, Alzheimer disease)"
/protein_id="AA04369.1"
/db_xref="GI:13325112"
/translation="MLPGLALLLAAWTARALEVPTDGNAGLLAEPOIAMFCGRLLNMH
MVNQGKWDSPSGTKCIDTREGILQYCOEYVPELOITNVVEANQPVTVIONWCKRGR
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KSTNLHDYGMLLPCGIDKFRGVFVCCPLAESDNDVSADAEEDSDVMWGGADTDYA
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353 a 316 c 412 g 238 t
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Query Match 100.0%; Score 90; DB 9; Length 1319;
Best Local Similarity 100.0%; Pred. No. 1.3e-11;
Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGACGGCGGTGGCGCGCGGCGGAGAGCAAGGAGCGCGGGATCCCACTCGCACA 60
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Db 35 GGGAGACGGCGGTGGCGCGCGGCGGAGAGCAAGGAGCGCGGGATCCCACTCGCACA 94
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QY 61 GCAGGCGCACTCGGTGCCCGCGGAGGGTGC 90
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Db 95 GCAGGCGCACTCGGTGCCCGCGGAGGGTGC 124
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RESULT 6
A02759
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
Homo sapiens.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 3353)
Mueller-Hill,B., Kang,J., Lemaire,H.G. and Unterbeck,A.
Precursor protein of APC polypeptide, DNA coding therefor and
diagnostic use of the DNA and protein
Patent: EP 0276723-A 1 03-AUG-1988;
BAYER AG
Location/Qualifiers
1..3353
/organism="Homo sapiens"
/db_xref="taxon:9606"
147. .2234
/codon_start=1
/product="amyloid plaque core protein"
/protein_id="CAA0268.1"
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/db_xref="SWISS-PROT:P05067"
/translation="MLPGLALLLAAWTARALEVPTDGNAGLLAEPOIAMFCGRLLNMH
MVNQGKWDSPSGTKCIDTREGILQYCOEYVPELOITNVVEANQPVTVIONWCKRGR
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353 a 316 c 412 g 238 t
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polya_signal 3331. .3336
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Best Local Similarity 100.0%; Pred. No. 1.1e-11;
Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 55 GGGAGACGGCGGTGGCGCGCGGCGGAGAGCAAGGAGCGCGGGATCCCACTCGCACA 114
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QY 61 GCAGGCGCACTCGGTGCCCGCGGAGGGTGC 90
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Db 115 GCAGGCGCACTCGGTGCCCGCGGAGGGTGC 144
|||||

RESULT 7
I36121
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 3353)
AUTHORS Wadsworth,S., Snyder,B., Reddy,V.B. and Wei,C.
TITLE cDNA-genomic DNA hybrid sequence encoding APP770 containing a
genomic DNA insert of the KI and OX-2 regions
JOURNAL Patent: US 5604131-A 1 18-FEB-1997;
FEATURES
Location/Qualifiers
1..3353
/organism="unknown"
BASE COUNT 922 a 745 c 867 g 819 t
ORIGIN
Query Match 100.0%; Score 90; DB 6; Length 3353;
Best Local Similarity 100.0%; Pred. No. 1.1e-11;
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QY 61 GCAGGCGCACTCGGTGCCCGCGGAGGGTGC 90
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Db 115 GCAGGCGCACTCGGTGCCCGCGGAGGGTGC 144
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RESULT 8
I66657
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 3353)
AUTHORS Marotta,C.A., Majocha,R.E. and Agrawal,S.
TITLE Reversal of .beta./A4 amyloid peptide induced morphological changes
in neuronal cells by antisense oligonucleotides
JOURNAL Patent: US 5670634-A 12 23-SEP-1997;
FEATURES
Location/Qualifiers
1..3353
/organism="unknown"
BASE COUNT 922 a 745 c 867 g 819 t
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Qy	61	GCAGCGCACTCGGTGCCCGCGCAGGTCG	90						
Db	115	GCAGCGCACTCGGTGCCCGCGCAGGTCG	144						
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LOCUS	Sequence 10 from Patent DE19856261.		3354 bp	DNA	linear	PAT 16-SEP-2000			
DEFINITION	AX026822								
ACCESSION	AX026822.1 GI:10187948								
VERSION	human.								
KEYWORDS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.								
ORGANISM	Peraus, G.								
REFERENCE	Patent: DE 19856261-C 10 30-MAR-2000;								
AUTHORS	HOECHST MARION ROUSSEL DE GMBH (DE)								
JOURNAL	Location/Qualifiers								
FEATURES	1. 3354								
source	/organism="Homo sapiens"								
BASE COUNT	922 a 745 c 868 g 819 t								
ORIGIN									
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Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;									
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Qy	61	GCAGCGCACTCGGTGCCCGCGCAGGTCG	90						
Db	116	GCAGCGCACTCGGTGCCCGCGCAGGTCG	145						
RESULT 10									
HSAPPA4									
LOCUS	Human mRNA for amyloid A4 precursor of Alzheimer's disease.		3354 bp	mRNA	linear	PRI 12-SEP-1993			
DEFINITION	Y00264								
ACCESSION	Y00264.1 GI:28525								
VERSION	amyloid fibril protein; cell surface glycoprotein.								
KEYWORDS	Homo sapiens.								
SOURCE	Homo sapiens								
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.								
REFERENCE	1 (bases 1 to 3353)								
AUTHORS	Kang, J., Lemaire, H.G., Unterbeck, A., Salbaum, J.M., Masters, C.L., Grzeschik, K.H., Multhaup, G., Beyreuther, K. and Muller-Hill, B.								
TITLE	The precursor of Alzheimer's disease amyloid A4 protein resembles a cell-surface receptor								
JOURNAL	Nature 325 (6106), 733-736 (1987)								
MEDLINE	87144572								
PUBMED	2881207								
REFERENCE	2 (bases 1 to 3353)								
AUTHORS	Mueller Hill, B.								
TITLE	Direct Submission								
JOURNAL	Submitted (12-MAY-1987)								
REFERENCE	3 (bases 1 to 3354)								
AUTHORS	Lemaire, H.G.								

ORIGIN

Query Match 100.0%; Score 90; DB 6; Length 8591;
Best Local Similarity 100.0%; Pred. No. 9.2e-12;
Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGACGGCGGGTGGCGCGGCGGCGAGAGCAAGGACGCGGGGATCCCACTCGCACA 60
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Db 2301 GGGAGACGGCGGGTGGCGCGGCGGCGAGAGCAAGGACGCGGGGATCCCACTCGCACA 2360
|||||

QY 61 GCAGCGCACTCGGTGCCCGCGCGAGGGTCG 90
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Db 2361 GCAGCGCACTCGGTGCCCGCGCGAGGGTCG 2390
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RESULT 12

LOCUS I58323 8591 bp DNA linear PAT 07-OCT-1997
DEFINITION Sequence 8 from patent US 5652092.
ACCESSION I58323
VERSION I58323.1 GI:2477561
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 8591)
AUTHORS Vitek,M.Peter. and Jacobsen,J.Steven.
TITLE Amyloid precursor proteins and method of using same to assess agents which down-regulate formation of .beta.-amyloid peptide
JOURNAL Patent: US 5652092-A 8 29-JUL-1997;
FEATURES Location/Qualifiers
source 1..8591
BASE COUNT 2225 a 2038 c 2247 g 2081 t
ORIGIN

Query Match 100.0%; Score 90; DB 6; Length 8591;
Best Local Similarity 100.0%; Pred. No. 9.2e-12;
Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGACGGCGGGTGGCGCGGCGGCGAGAGCAAGGACGCGGGGATCCCACTCGCACA 60
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Db 2361 GCAGCGCACTCGGTGCCCGCGCGAGGGTCG 2390
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RESULT 13

LOCUS I60508 8591 bp DNA linear PAT 07-OCT-1997
DEFINITION Sequence 6 from patent US 5656477.
ACCESSION I60508
VERSION I60508.1 GI:2478953
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 8591)
AUTHORS Vitek,M.Peter. and Jacobsen,J.Steven.
TITLE Amyloid precursor proteins and method of using same to assess agents which down-regulate formation of .beta.-amyloid peptide
JOURNAL Patent: US 5656477-A 6 12-AUG-1997;
FEATURES Location/Qualifiers
source 1..8591
BASE COUNT 2225 a 2038 c 2247 g 2081 t
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Db 2361 GCAGCGCACTCGGTGCCCGCGCGAGGGTCG 2390
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RESULT 14

LOCUS I60509 8591 bp DNA linear PAT 07-OCT-1997
DEFINITION Sequence 8 from patent US 5656477.
ACCESSION I60509
VERSION I60509.1 GI:2478954
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 8591)
AUTHORS Vitek,M.Peter. and Jacobsen,J.Steven.
TITLE Amyloid precursor proteins and method of using same to assess agents which down-regulate formation of .beta.-amyloid peptide
JOURNAL Patent: US 5656477-A 8 12-AUG-1997;
FEATURES Location/Qualifiers
source 1..8591
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Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 GCAGCGCACTCGGTGCCCGCGCGAGGGTCG 90
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Db 2361 GCAGCGCACTCGGTGCCCGCGCGAGGGTCG 2390
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RESULT 15

LOCUS I77052 8591 bp DNA linear PAT 03-APR-1998
DEFINITION Sequence 6 from patent US 5693478.
ACCESSION I77052
VERSION I77052.1 GI:3013206
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 8591)
AUTHORS Vitek,M.Peter. and Jacobsen,J.Steven.
TITLE Method of detecting amyloid precursor proteins
JOURNAL Patent: US 5693478-A 6 02-DEC-1997;
FEATURES Location/Qualifiers
source 1..8591
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Best Local Similarity 100.0%; Pred. No. 9.2e-12;
Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 2301 GGGAGACGGCGGGTGGCGCGGCGGCGAGAGCAAGGACGCGGGGATCCCACTCGCACA 2360
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QY 61 GCAGCGCACTCGGTGCCCGCGCGAGGGTCG 90
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Db 2361 GCAGCGCACTCGGTGCCCCCGCGCAGGGTCG 2390
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